

AMENDMENT**IN THE CLAIMS:**

Please amend the claims as follows:

1. (Currently amended) Surface-modified pyrogenically produced zinc oxides oxide powder, characterized in that they have the following physico-chemical characteristic data:

BET surface areas: $18 \pm 5 \text{ m}^2/\text{g}$

C content: 0.5 to 1.0 wt. %

2. (Currently amended) Surface-modified pyrogenically produced zinc oxide powder according to Claim 1, which has been surface modified with a member selected from the group consisting of:

a) Organosilanes of the type $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n-1})$

R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 $n = 1 - 20$

b) Organosilanes of the type $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n-1})$

R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-

R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-

R' = cycloalkyl

$n = 1 - 20$

$x + y = 3$

$x = 1, 2$

$y = 1, 2$

c) Halogeno-organosilanes of the type $\text{X}_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}_3\text{Si}(\text{C}_n\text{H}_{2n-1})$

X = Cl, Br

$n = 1 - 20$

d) Halogeno-organosilanes of the type $\text{X}_2(\text{R}')\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}_2(\text{R}')\text{Si}(\text{C}_n\text{H}_{2n-1})$

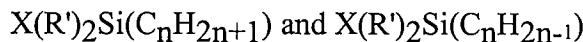
X = Cl, Br

R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-

R' = cycloalkyl

$n = 1 - 20$

e) Halogeno-organosilanes of the type



X = Cl, Br

R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-

R' = cycloalkyl

n = 1 - 20

f) Organosilanes of the type $(RO)_3Si(CH_2)_m-R'$

R = alkyl, such as methyl-, ethyl-, propyl-

m = 0, 1 - 20

R' = methyl-, aryl (for example $-C_6H_5$, substituted phenyl radicals)

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$

$-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

$-N-(CH_2-CH_2-NH_2)_2$

$-OOC(CH_3)C=CH_2$

$-OCH_2-CH(O)CH_2$

$-NH-CO-N-CO-(CH_2)_5$

$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$

$-S_x-(CH_2)_3Si(OR)_3$

$-SH$

$-NR'R''R'''$ (R' = alkyl, aryl; R'' = H,

alkyl, aryl; R''' = H, alkyl, aryl, benzyl,

$C_2H_4NR''''R'''''$ where R'''' = H, alkyl and

R'''' = H, alkyl)

g) Organosilanes of the type $(R'')_x(RO)_ySi(CH_2)_m-R'$

R'' = alkyl $x+y = 2$

= cycloalkyl $x = 1, 2$

y = 1, 2

m = 0, 1 to 20

R' = methyl-, aryl (for example $-C_6H_5$, substituted phenyl radicals)

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$

$-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

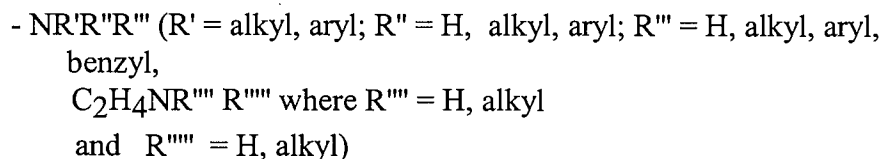
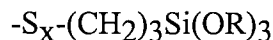
$-N-(CH_2-CH_2-NH_2)_2$

$-OOC(CH_3)C=CH_2$

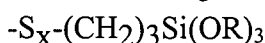
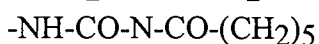
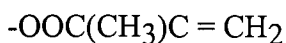
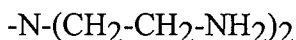
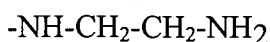
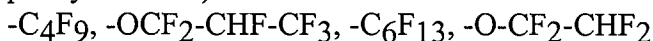
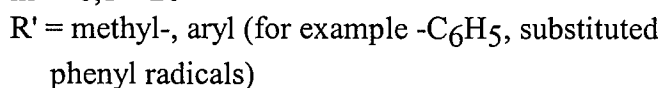
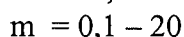
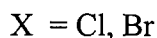
$-OCH_2-CH(O)CH_2$

$-NH-CO-N-CO-(CH_2)_5$

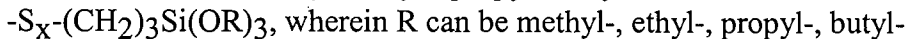
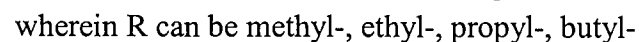
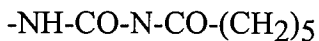
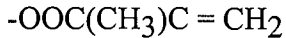
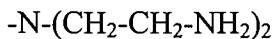
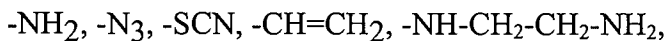
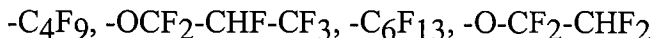
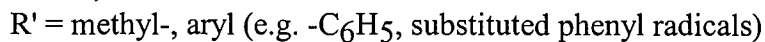
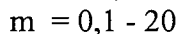
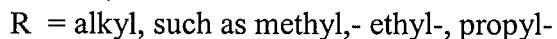
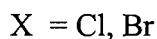
$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$



h) Halogeno-organosilanes of the type $X_3Si(CH_2)_m-R'$



i) Halogeno-organosilanes of the type $(R)X_2Si(CH_2)_m-R'$



j) Halogeno-organosilanes of the type $(R)_2X Si(CH_2)_m-R'$

X = Cl, Br

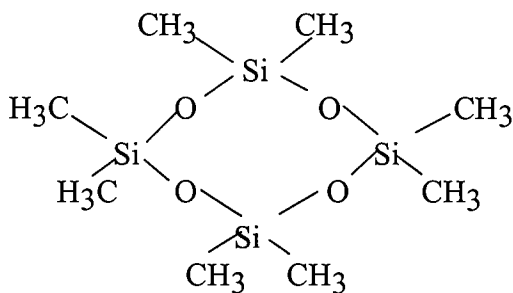
R = alkyl

m = 0, 1 - 20

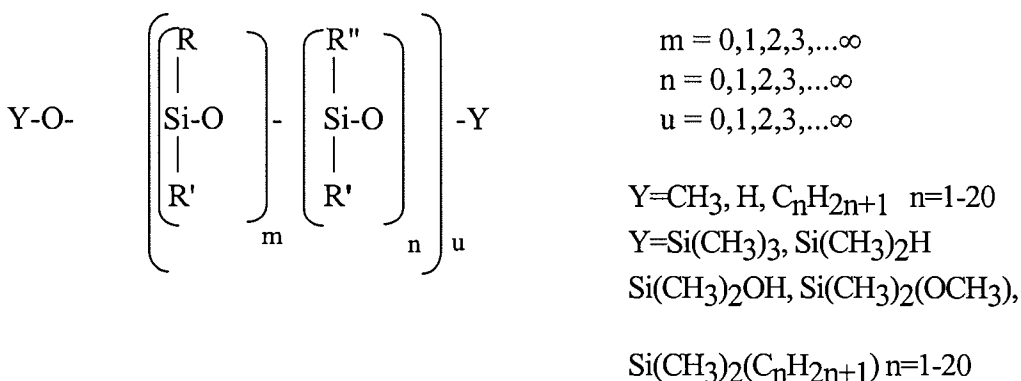
R' = methyl-, aryl (e.g. $-C_6H_5$, substituted phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$ $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-$ $(CH_2)_3Si(OR)_3$ $-S_x-(CH_2)_3Si(OR)_3$ $-SH$ k) Silazanes of the type $R'R_2Si-N-SiR_2R'$ 

R = alkyl, vinyl, aryl

R' = alkyl, vinyl, aryl

l) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type $-O-Si(CH_3)_2-$. E.g. octamethylcyclotetrasiloxane = D 4

m) Polysiloxanes or silicone oils of the type



R = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl und substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl- and substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl- and substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl und substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

3. (Currently amended) A process for the preparation of the surface-modified pyrogenically produced zinc oxide powder according to Claim 1, comprising optionally spraying a zinc oxide with water, spraying a surface-modifying agent at room temperature to obtain a zinc oxide sprayed with said surface-modifying agent, heat treating said zinc oxide at a temperature of 50 to 400°C over a period of 1 to 6 hours to thereby obtain a surface-modified zinc oxide.

4. (Original) The process according to Claim 3, wherein the surface-modifying agent is a member selected from the group consisting of:

- a) Organosilanes of the type $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n-1})$
 R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 $n = 1 - 20$
- b) Organosilanes of the type $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n-1})$
 R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 R' =cycloalkyl
 $n = 1 - 20$
 $x+y = 3$
 $x = 1,2$
 $y = 1,2$
- c) Halogeno-organosilanes of the type $\text{X}_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}_3\text{Si}(\text{C}_n\text{H}_{2n-1})$
 $\text{X} = \text{Cl}, \text{Br}$
 $n = 1 - 20$
- d) Halogeno-organosilanes of the type $\text{X}_2(\text{R}')\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}_2(\text{R}')\text{Si}(\text{C}_n\text{H}_{2n-1})$
 $\text{X} = \text{Cl}, \text{Br}$
 R' = alkyl, such as, for example, methyl-, ethyl-,
n-propyl-, i-propyl-, butyl-
 R' =cycloalkyl
 $n = 1 - 20$
- e) Halogeno-organosilanes of the type
 $\text{X}(\text{R}')_2\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}(\text{R}')_2\text{Si}(\text{C}_n\text{H}_{2n-1})$
 $\text{X} = \text{Cl}, \text{Br}$
 R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-,
butyl-
 R' =cycloalkyl
 $n = 1 - 20$

f) Organosilanes of the type $(RO)_3Si(CH_2)_m-R'$

R = alkyl, such as methyl-, ethyl-, propyl-

m = 0,1 - 20

R' = methyl-, aryl (for example -C₆H₅,

substituted phenyl radicals)

-C₄F₉, OCF₂-CHF-CF₃, -C₆F₁₃, -O-CF₂-CHF₂-NH₂, -N₃, -SCN, -CH=CH₂, -NH-CH₂-CH₂-NH₂,-N-(CH₂-CH₂-NH₂)₂-OOC(CH₃)C = CH₂-OCH₂-CH(O)CH₂-NH-CO-N-CO-(CH₂)₅-NH-COO-CH₃, -NH-COO-CH₂-CH₃, -NH-(CH₂)₃Si(OR)₃-S_x-(CH₂)₃Si(OR)₃

-SH

-NR'R''R''' (R' = alkyl, aryl; R'' = H,

alkyl, aryl; R''' = H, alkyl, aryl, benzyl, C₂H₄NR'''' R'''' where R'''' =

H, alkyl and R'''' = H, alkyl)

g) Organosilanes of the type $(R'')_x(RO)_ySi(CH_2)_m-R'$

R'' = alkyl x+y = 2

= cycloalkyl x = 1,2

y = 1,2

m = 0,1 to 20

R' = methyl-, aryl (for example -C₆H₅, substituted phenyl radicals)-C₄F₉, -OCF₂-CHF-CF₃, -C₆F₁₃, -O-CF₂-CHF₂-NH₂, -N₃, -SCN, -CH=CH₂, -NH-CH₂-CH₂-NH₂,-N-(CH₂-CH₂-NH₂)₂-OOC(CH₃)C = CH₂-OCH₂-CH(O)CH₂-NH-CO-N-CO-(CH₂)₅-NH-COO-CH₃, -NH-COO-CH₂-CH₃, -NH-(CH₂)₃Si(OR)₃-S_x-(CH₂)₃Si(OR)₃

-SH

-NR'R''R''' (R' = alkyl, aryl; R'' = H, alkyl, aryl; R''' = H, alkyl, aryl, benzyl,

C₂H₄NR'''' R'''' where R'''' = H, alkyl and R'''' = H, alkyl)

h) Halogeno-organosilanes of the type $X_3Si(CH_2)_m-R'$

X = Cl, Br

m = 0, 1 - 20

R' = methyl-, aryl (for example $-C_6H_5$, substituted phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$ $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$ $-S_X-(CH_2)_3Si(OR)_3$ $-SH$ i) Halogeno-organosilanes of the type $(R)X_2Si(CH_2)_m-R'$

X = Cl, Br

R = alkyl, such as methyl-, ethyl-, propyl-

m = 0, 1 - 20

R' = methyl-, aryl (e.g. $-C_6H_5$, substituted

phenyl radicals)

 $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$, $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$,

wherein R can be methyl-, ethyl-, propyl-, butyl-

 $-S_X-(CH_2)_3Si(OR)_3$, wherein R can be methyl-, ethyl-, propyl-, butyl- $-SH$

j) Halogeno-organosilanes of the type $(R)_2X Si(CH_2)_m-R'$

$X = Cl, Br$

$R = \text{alkyl}$

$m = 0, 1 - 20$

$R' = \text{methyl-, aryl (e.g. } -C_6H_5, \text{ substituted phenyl radicals)}$

$-C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2$

$-NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2$

$-N-(CH_2-CH_2-NH_2)_2$

$-OOC(CH_3)C=CH_2$

$-OCH_2-CH(O)CH_2$

$-NH-CO-N-CO-(CH_2)_5$

$-NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3$

$-S_X-(CH_2)_3Si(OR)_3$

$-SH$

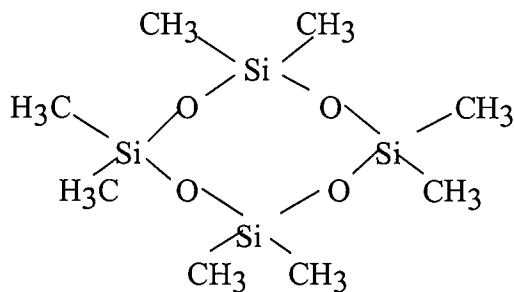
k) Silazanes of the type $R'R_2Si-N-SiR_2R'$



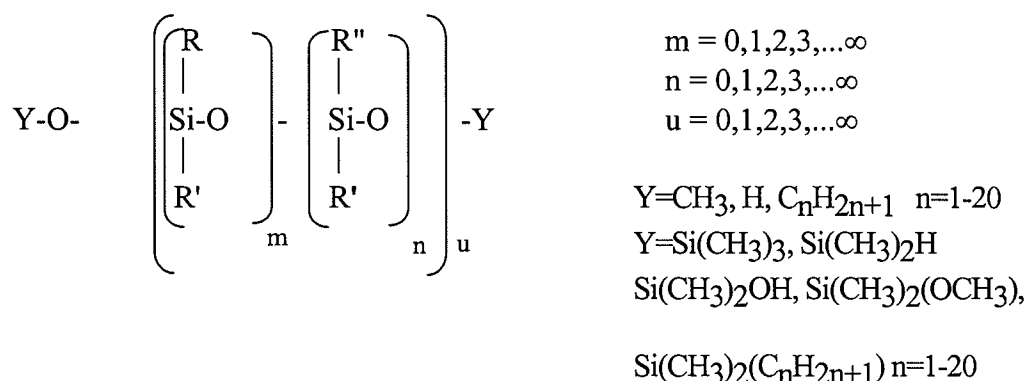
$R = \text{alkyl, vinyl, aryl}$

$R' = \text{alkyl, vinyl, aryl}$

l) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type $-O-Si(CH_3)_2-$. E.g. octamethylcyclotetrasiloxane = D 4



m) Polysiloxanes or silicone oils of the type



R = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl und substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl- and substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl- and substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20 , aryl, such as phenyl und substituted phenyl radicals, $(\text{CH}_2)_n\text{-NH}_2$, H

5. (Currently amended) A process for the preparation of the surface-modified pyrogenically produced zinc oxides oxide powder according to Claim 1, comprising optionally spraying zinc oxide with water, treating said zinc oxide with a surface-modifying agent in vapour form and then heat-treating the resulting zinc oxide at a temperature of 50 to 800°C over a period of 0.5 to 6 hours to thereby obtain a surface-modified zinc oxide.

6. (Original) The process according to Claim 5, wherein the surface-modifying agent is a member selected from the group consisting of:

- a) Organosilanes of the type $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n-1})$
 R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 $n = 1 - 20$
- b) Organosilanes of the type $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n-1})$
 R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 R' =cycloalkyl
 $n = 1 - 20$
 $x+y = 3$
 $x = 1,2$
 $y = 1,2$
- c) Halogeno-organosilanes of the type $\text{X}_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}_3\text{Si}(\text{C}_n\text{H}_{2n-1})$
 $\text{X} = \text{Cl}, \text{Br}$
 $n = 1 - 20$
- d) Halogeno-organosilanes of the type $\text{X}_2(\text{R}')\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}_2(\text{R}')\text{Si}(\text{C}_n\text{H}_{2n-1})$
 $\text{X} = \text{Cl}, \text{Br}$
 R' = alkyl, such as, for example, methyl-, ethyl-,
n-propyl-, i-propyl-, butyl-
 R' =cycloalkyl
 $n = 1 - 20$
- e) Halogeno-organosilanes of the type
 $\text{X}(\text{R}')_2\text{Si}(\text{C}_n\text{H}_{2n+1})$ and $\text{X}(\text{R}')_2\text{Si}(\text{C}_n\text{H}_{2n-1})$
 $\text{X} = \text{Cl}, \text{Br}$
 R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
 R' =cycloalkyl
 $n = 1 - 20$

f) Organosilanes of the type $(RO)_3Si(CH_2)_m-R'$

R = alkyl, such as methyl-, ethyl-, propyl-

m = 0,1 - 20

R' = methyl-, aryl (for example $-C_6H_5$, substituted phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$, $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$ $-S_X-(CH_2)_3Si(OR)_3$ $-SH$ $-NR'R''R'''$ (R' = alkyl, aryl; R'' = H, alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
 $C_2H_4NR''''R''''$ where R'''' = H, alkyl and R'''' = H, alkyl)g) Organosilanes of the type $(R'')_x(RO)_ySi(CH_2)_m-R'$

R'' = alkyl x+y= 2

= cycloalkyl x = 1,2

y = 1,2

m = 0,1 to 20

R' = methyl-, aryl (for example $-C_6H_5$, substituted
phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$, $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$ $-S_X-(CH_2)_3Si(OR)_3$ $-SH$ $-NR'R''R'''$ (R' = alkyl, aryl; R'' = H, alkyl, aryl; R''' = H, alkyl, aryl,
benzyl, $C_2H_4NR''''R''''$ where R'''' = H, alkyl and R'''' = H, alkyl)

h) Halogeno-organosilanes of the type $X_3Si(CH_2)_m-R'$

X = Cl, Br

m = 0, 1 - 20

R' = methyl-, aryl (for example $-C_6H_5$, substituted phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$ $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$ $-S_X-(CH_2)_3Si(OR)_3$ $-SH$ i) Halogeno-organosilanes of the type $(R)X_2Si(CH_2)_m-R'$

X = Cl, Br

R = alkyl, such as methyl-, ethyl-, propyl-

m = 0, 1 - 20

R' = methyl-, aryl (e.g. $-C_6H_5$, substituted phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$, $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C=CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$,

wherein R can be methyl-, ethyl-, propyl-, butyl-

 $-S_X-(CH_2)_3Si(OR)_3$, wherein R can be methyl-, ethyl-, propyl-,

butyl-

 $-SH$

j) Halogeno-organosilanes of the type $(R)_2X Si(CH_2)_m-R'$

X = Cl, Br

R = alkyl

m = 0, 1 – 20

R' = methyl-, aryl (e.g. $-C_6H_5$, substituted phenyl radicals)

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$

$-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$

$-N-(CH_2-CH_2-NH_2)_2$

$-OOC(CH_3)C=CH_2$

$-OCH_2-CH(O)CH_2$

$-NH-CO-N-CO-(CH_2)_5$

$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$

$-S_x-(CH_2)_3Si(OR)_3$

$-SH$

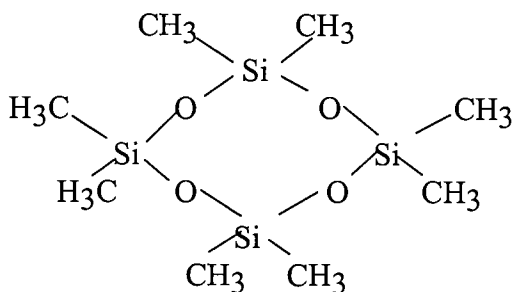
k) Silazanes of the type $R'R_2Si-N-SiR_2R'$



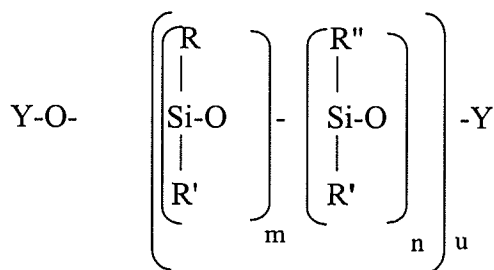
R = alkyl, vinyl, aryl

R' = alkyl, vinyl, aryl

l) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type -O-Si(CH₃)₂-.E.g. octamethylcyclotetrasiloxane = D 4



m) Polysiloxanes or silicone oils of the type



$$m = 0, 1, 2, 3, \dots \infty$$

$$n = 0, 1, 2, 3, \dots \infty$$

$$u = 0, 1, 2, 3, \dots \infty$$

$$Y=CH_3, H, C_nH_{2n+1} \quad n=1-20$$

$$Y=Si(CH_3)_3, Si(CH_3)_2H$$

$$Si(CH_3)_2OH, Si(CH_3)_2(OCH_3),$$

$$Si(CH_3)_2(C_nH_{2n+1}) \quad n=1-20$$

R = alkyl, such as C_nH_{2n+1} , wherein $n = 1$ to 20 , aryl,

such as phenyl und substituted phenyl radicals,

$(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20, aryl,
such as phenyl- and substituted phenyl radicals,
 $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20, aryl,
such as phenyl- and substituted phenyl radicals,
 $(\text{CH}_2)_n\text{-NH}_2$, H

R' = alkyl, such as $\text{C}_n\text{H}_{2n+1}$, wherein $n = 1$ to 20, aryl,
such as phenyl und substituted phenyl radicals,
 $(\text{CH}_2)_n\text{-NH}_2$, H

7. (Currently amended) A cosmetic preparation comprising a dermatologically acceptable carrier and the surface-modified pyrogenically produced zinc oxide powder of Claim 1.

8. (Currently amended) A cosmetic preparation comprising a dermatologically acceptable carrier and the surface-modified pyrogenically produced zinc oxide powder of Claim 2.

9. (Currently amended) A sunscreen preparation comprising a dermatologically acceptable carrier and the surface modified pyrogenically produced zinc oxide powder of Claim 1.

10. (Original) A sunscreen preparation comprising a dermatologically acceptable carrier and the surface modified pyrogenically produced zinc oxide powder of Claim 2.

11. (Currently amended) The sunscreen preparation according to Claim 9, wherein the dermatologically acceptable carrier is a member selected from the group consisting of octocrylene, ethylhexyl methoxycinnamate, phenylbenzimidazole sulfonic ~~sulfoine~~ acid, and bis-ethylhexyloxy methoxyphenyl triazine.

12. (Currently amended) The surface-modified pyrogenically produced zinc oxide powder according to Claim 1 made from a zinc oxide which is a pyrogenically produced zinc oxide powder having a BET surface area of 10 to 100 m^2/g in the form of aggregates of anisotropic primary particles wherein the aggregates have an average diameter of 50 to 300 nm.

13. (Currently amended) The surface-modified pyrogenically produced zinc oxide powder according to Claim 12 wherein the aggregates have a shape factor F (circle) of below 0.5.

14. (Currently amended) The surface-modified pyrogenically produced zinc oxide powder according to Claim 12 wherein the zinc oxide powder displays at its surface an oxygen concentration as non-desorbable moisture in the form of $[[\text{Zn-OH}]]$ Zn-OH and/or Zn-OH_2 units of at least 40%.